

## SHAWNIGAN LAKE WATERWORKS

BV Labs Job Number: C005927

Report Date: 2020/02/05

**VIHA PKG, SURFACE WATER - BURNABY (WATER)**

BV Labs ID		XH3818		
Sampling Date		2020-01-28		
COC Number		604550-01-01		
	<b>UNITS</b>	<b>SHAWNIGAN PUMPHOUSE</b>	<b>RDL</b>	<b>QC Batch</b>
<b>ANIONS</b>				
Nitrite (N)	mg/L	<0.0050	0.0050	9748196
<b>Calculated Parameters</b>				
Total Hardness (CaCO3)	mg/L	22.4	0.50	9747815
Nitrate (N)	mg/L	0.127	0.020	9747783
Total Organic Nitrogen (N)	mg/L	0.217	0.020	9748036
Transmittance at 254nm	%T/cm	83.6	N/A	9748032
<b>Misc. Inorganics</b>				
Conductivity	uS/cm	70	2.0	9748237
pH	pH	7.23	N/A	9748239
Total Organic Carbon (C)	mg/L	2.9	0.50	9750770
Total Dissolved Solids	mg/L	22	10	9750557
<b>Anions</b>				
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	9748105
Alkalinity (Total as CaCO3)	mg/L	21	1.0	9748105
Bicarbonate (HCO3)	mg/L	25	1.0	9748105
Carbonate (CO3)	mg/L	<1.0	1.0	9748105
Dissolved Fluoride (F)	mg/L	<0.050	0.050	9749183
Hydroxide (OH)	mg/L	<1.0	1.0	9748105
Dissolved Chloride (Cl)	mg/L	6.5	1.0	9748383
Dissolved Sulphate (SO4)	mg/L	3.0	1.0	9748383
<b>MISCELLANEOUS</b>				
True Colour	Col. Unit	7.7	5.0	9748378
UV absorbance (254nm)	AU/cm	0.078	0.010	9751020
<b>Nutrients</b>				
Total Ammonia (N)	mg/L	<0.015	0.015	9754207
Nitrate plus Nitrite (N)	mg/L	0.127	0.020	9748194
Total Nitrogen (N)	mg/L	0.345	0.020	9754959
<b>Physical Properties</b>				
Turbidity	NTU	0.58	0.10	9748046
<b>Elements</b>				
Total Mercury (Hg)	ug/L	<0.0020	0.0020	9750666
<b>Total Metals by ICPMS</b>				
Total Aluminum (Al)	ug/L	22.8	3.0	9748337
Total Antimony (Sb)	ug/L	<0.50	0.50	9748337
Total Arsenic (As)	ug/L	0.13	0.10	9748337

Total Barium (Ba)	ug/L	9.6	1.0	9748337
Total Beryllium (Be)	ug/L	<0.10	0.10	9748337
Total Bismuth (Bi)	ug/L	<1.0	1.0	9748337
Total Boron (B)	ug/L	<50	50	9748337
Total Cadmium (Cd)	ug/L	<0.010	0.010	9748337
Total Chromium (Cr)	ug/L	<1.0	1.0	9748337
Total Cobalt (Co)	ug/L	<0.20	0.20	9748337
Total Copper (Cu)	ug/L	3.41	0.20	9748337
Total Iron (Fe)	ug/L	26.7	5.0	9748337
Total Lead (Pb)	ug/L	<0.20	0.20	9748337
Total Manganese (Mn)	ug/L	3.2	1.0	9748337
Total Molybdenum (Mo)	ug/L	<1.0	1.0	9748337
Total Nickel (Ni)	ug/L	<1.0	1.0	9748337
Total Selenium (Se)	ug/L	<0.10	0.10	9748337
Total Silicon (Si)	ug/L	2370	100	9748337
Total Silver (Ag)	ug/L	<0.020	0.020	9748337
Total Strontium (Sr)	ug/L	27.3	1.0	9748337
Total Thallium (Tl)	ug/L	<0.010	0.010	9748337
Total Tin (Sn)	ug/L	<5.0	5.0	9748337
Total Titanium (Ti)	ug/L	<5.0	5.0	9748337
Total Uranium (U)	ug/L	<0.10	0.10	9748337
Total Vanadium (V)	ug/L	<5.0	5.0	9748337
Total Zinc (Zn)	ug/L	<5.0	5.0	9748337
Total Zirconium (Zr)	ug/L	<0.10	0.10	9748337
Total Calcium (Ca)	mg/L	6.78	0.050	9748024
Total Magnesium (Mg)	mg/L	1.32	0.050	9748024
Total Potassium (K)	mg/L	0.302	0.050	9748024
Total Sodium (Na)	mg/L	4.19	0.050	9748024
Total Sulphur (S)	mg/L	<3.0	3.0	9748024
<b>Microbiological Param.</b>				
Heterotrophic Plate Count	CFU/mL	<1	1	9748323
Total Coliforms	CFU/100mL	0	N/A	9748330
E. coli	CFU/100mL	0	N/A	9748330
<b>Calculated Parameters</b>				
Langelier Index (@ 4.4C)	N/A	-2.45	N/A	9748037
Langelier Index (@ 60C)	N/A	-1.41	N/A	9748039
Saturation pH (@ 4.4C)	N/A	9.68	N/A	9748037
Saturation pH (@ 60C)	N/A	8.64	N/A	9748039

RDL = Reportable Detection Limit

N/A = Not Applicable

**Results relate only to the items tested.**